Internation plication No PCT/JI /13332

CLASSIFICATION OF SUBJECT MATTER PC 7 F01D17/16

10/517831

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F01D F02C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUME	INTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 226 444 A (GARRETT CORP) 24 June 1987 (1987-06-24) cited in the application the whole document	1
X	US 2 428 830 A (RUDOLPH BIRMANN) 14 October 1947 (1947-10-14) column 5, line 29 - line 53; figures 3,4	1
Α	US 2002/098081 A1 (SCHACHERER ROLAND ET AL) 25 July 2002 (2002-07-25) the whole document	1
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X	Further documents	are listed in the	continuation of box C.
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Patent family members are listed in annex.

- ° Special categories of cited documents:
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Date of the actual completion of the international search

Date of mailing of the international search report

18, 06, 2004

28 May 2004

Authorized officer

Name and mailing address of the ISA

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INTERNATIONAL SECH REPORT

Internation polication No PCT/JI 3/13332

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C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
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Α .	US 4 679 984 A (SWIHART WILLIAM R ET AL) 14 July 1987 (1987-07-14)	1
X	abstract; claims 24-28; figures 2-7 column 2, line 57 - line 68 column 3, line 23 -column 4, line 26 column 4, line 49 - line 65	2,8-12
X	EP 1 236 867 A (MITSUBISHI HEAVY IND LTD) 4 September 2002 (2002-09-04) paragraph '0025! - paragraph '0032!; figures 1,7	2,7,9,10
X	US 4 770 603 A (ENGELS BERTOLD ET AL) 13 September 1988 (1988-09-13) figure 1 column 1, line 5 - line 20 column 2, line 3 - line 21 column 3, line 5 - line 12 column 5, line 59 -column 7, line 7	2,3
X	US 5 146 752 A (BRUESTLE CLAUS) 15 September 1992 (1992-09-15) column 2, line 43 -column 3, line 18; figures 1,4,5	2,9-12
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E	EP 1 394 363 A (BORG WARNER INC) 3 March 2004 (2004-03-03) abstract; figures 1-4 paragraph '0019! - paragraph '0022! paragraphs '0029!, '0032!	2,3,7,9, 11,12



INTERNATIONAL SEARCH REPORT

International application No. PCT/JP 03/13332

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This international Searching Authority found multiple inventions in this international application, as follows:	
see additional sheet	
1. As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely pald by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claim : 1

A variable nozzle mechanism in an exhaust gas turbocharger in which a second supporting part is provided on the nozzle mount for supporting a drive ring for rotation when the wear/abrasion of a supporting part reaches a predetermined amount.

2. Claims: 2-12

A variable nozzle mechanism in an exhaust gas turbocharger which is constructed like a kind of cartridge.

INTERNATIONAL SEARCH REPORT

unrormat patent family members

Internation Polication No
PCT/JP 3/13332

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